

# Vienna Instruments

# Trumpet II

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## Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one of our Vienna Instruments! This document contains the mapping information for the Vienna Instruments Trumpet II. You will find in it a comprehensive survey of the articulations/Patches content, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

## Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary. Here's an overview of the articulations/Patches contained in this Collection:

**Short notes:** Staccato, portato short and medium

**Long notes:** Sustained with normal, progressive, and without vibrato; marcato; upward slides with and without vibrato; falls

**Dynamics:** Medium and strong crescendo and diminuendo (4 durations each); crescendo-diminuendo with and without vibrato (4 durations each); fortissimo, sforzato, sforzissimo

**Flutter tonguing:** Normal and crescendo

**Interval performances:** Legato with and without vibrato, portamento tight and loose, fast legato, trills

**Repetition performances:** Legato, portato, staccato; portato and staccato crescendo

**Fast repetitions:** 16ths at 140 to 190, and 210 BPM

The velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements. The Patch information also lists the velocity layers in detail.

## Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments. They allow you to play authentic legato without any programming tricks. In our Silent Stage, all intervals from minor second to the octave were recorded for every instrument – up and down, of course; that makes 24 interval samples per note for one velocity alone! When you load an interval performance Patch and play a line on your keyboard, the software automatically joins the right samples with their interval transitions again, and you hear a perfect legato. By the way, this technique is not only used for legato but also for other articulations like the strings' portamento, marcato, or détaché and spiccato articulations.

Interval performances also contain at least two legato repetitions for every note which alternate automatically whenever you strike a key more than once. There also are preconfigured thresholds for legato and repetition notes: The legato threshold – i.e., the maximum break between notes where legato is played – is 50 ms. Otherwise, a sustained starting note will sound so that you can easily start a new phrase without leaving the legato Patch. For note repetitions, the threshold is 200 ms: a break up to that duration will yield a legato repetition; if the break is longer, a new starting note. But naturally, it's mingling legato with other articulations which makes a piece really come alive.

Due to their nature, all interval performances are monophonic; otherwise, the software would have to be able to decide which source note belongs to which target note. To circumvent this, you can open two VI instances of the same instrument on separate MIDI tracks without any additional strain on your RAM.

Another variety of interval performance you will come across is the "perf-leg\_sus" Patch. These Patches also contain normal legatos, only the target note of each interval is crossfaded into a looped sustain. They can be used for slower pieces with long notes; however, you should use them with circumspection, since plain legatos sound more lively because they not only render the interval transitions as they were played, but also have different target samples for every interval instead of the same sustained note: When you play, e.g., c–e and then c#–e with normal legato, you will get two different "e" tones; with sus-legato you won't.

## Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

## Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes 101–112 instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes.

## Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

# 52 Trumpet-Bb

## Patches

### 01 SHORT + LONG NOTES

Range: E3-F6



Staccato, portato short and long  
Sustained with normal, progressive, and without vibrato  
Marcato with vibrato  
Upward slides with and without vibrato  
Falls

#### 01 TrBb\_staccato

Samples: 352

RAM: 22 MB

Staccato  
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f  
4 Alternations

#### 02 TrBb\_portato\_short

Samples: 352

RAM: 22 MB

Portato, short  
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f  
4 Alternations

#### 03 TrBb\_portato\_medium

Samples: 352

RAM: 22 MB

Portato, medium  
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f  
4 Alternations

#### 11 TrBb\_sus\_Vib

Samples: 409

RAM: 25 MB

Sustained, with vibrato  
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f  
Release samples  
3 Alternations  
AB switch: release normal/falls

#### 12 TrBb\_sus\_Vib-progr

Range: E3-D#6

Samples: 385

RAM: 24 MB


Sustained, with progressive vibrato  
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f  
Release samples  
3 Alternations  
AB switch: release normal/falls



#### 13 TrBb\_sus\_Vib-marc

Samples: 233

RAM: 14 MB

Sustained, marcato with vibrato  
2 velocity layers: 0–108 mf; 109–127 f  
Release samples  
2 Alternations  
AB switch: release normal/falls

|   |                      |  |                   |
|---|----------------------|--|-------------------|
| <b>14 TrBb_sus_Vib-slide</b>  | <b>Range: E3–C#6</b> | <b>Samples: 202</b>  | <b>RAM: 12 MB</b> |
| Sustained, upward slides, with vibrato<br>3 velocity layers: 0–55 p; 56–108 mf; 109–127 f<br>Release samples<br>AB switch: release normal/falls   |                      |  |                   |
| <b>15 TrBb_sus_noVib</b>  |                      | <b>Samples: 403</b>  | <b>RAM: 25 MB</b> |
| Sustained, without vibrato<br>4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f<br>Release samples<br>3 Alternations<br>AB switch: release normal/falls   |                      |  |                   |
| <b>16 TrBb_sus_noVib-slide</b>  | <b>Range: E3–C#6</b> | <b>Samples: 202</b>  | <b>RAM: 12 MB</b> |
| Sustained, upward slides, without vibrato<br>3 velocity layers: 0–55 p; 56–108 mf; 109–127 f<br>Release samples<br>AB switch: release normal/falls  |                      |  |                   |
| <b>21 TrBb_falls</b>  | <b>Range: E3–D6</b>  | <b>Samples: 57</b>   | <b>RAM: 3 MB</b>  |
| Falls<br>3 velocity layers: 0–55 p; 56–108 mf; 109–127 f  |                      |  |                   |
|   |                      |  |                   |
| <b>02 DYNAMICS</b>  | <b>Range: E3–F6</b>  |  |                   |
| Medium crescendo and diminuendo with vibrato, 1.5, 2, 3, and 4 sec.<br>Strong crescendo and diminuendo, without vibrato, 1.5, 2, 3, and 4 sec.<br>Crescendo-diminuendo with and without vibrato, 2, 3, 4, and 6 sec.<br>Fortepiano, sforzato, sforzatissimo |                      |  |                   |
| <b>01 TrBb_dyn-me_Vib_1'5s (2/3/4)</b>  |                      | <b>Samples: 84</b>   | <b>RAM: 5 MB</b>  |
| Medium crescendo and diminuendo, with vibrato, 1.5, 2, 3, and 4 sec.<br>2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf<br>AB switch: crescendo/diminuendo  |                      |  |                   |
| <b>11 TrBb_dyn-str_noVib_1'5s (2/3/4)</b>   |                      | <b>Samples: 42</b>   | <b>RAM: 2 MB</b>  |
| Strong crescendo and diminuendo, without vibrato, 1.5, 2, 3, and 4 sec.<br>1 velocity layer<br>AB switch: crescendo/diminuendo  |                      |  |                   |
| <b>21 TrBb_pfp_Vib_2s (3/4/6)</b>   |                      | <b>Samples: 42</b>   | <b>RAM: 2 MB</b>  |
| Crescendo-diminuendo with vibrato, 2, 3, 4, and 6 sec.<br>2 velocity layers: 0–88 p; 89–127 f   |                      |  |                   |
| <b>31 TrBb_pfp_noVib_2s (3/4/6)</b>   |                      | <b>Samples: 42</b>   | <b>RAM: 2 MB</b>  |
| Crescendo-diminuendo without vibrato, 2, 3, 4, and 6 sec.<br>2 velocity layers: 0–88 p; 89–127 f  |                      |  |                   |

|  |                      |   |
|--|----------------------|---|
| <b>41 TrBb_fp</b>  | <b>Samples: 63</b>   | <b>RAM: 3 MB</b>  |
| Fortepiano<br>1 velocity layer<br>3 Alternations   |                      |   |
| <b>42 TrBb_sfz</b>   | <b>Samples: 63</b>   | <b>RAM: 3 MB</b>  |
| Sforzato<br>1 velocity layer<br>3 Alternations   |                      |   |
| <b>43 TrBb_sffz</b>  | <b>Samples: 63</b>   | <b>RAM: 3 MB</b>  |
| Sforzatissimo<br>1 velocity layer<br>3 Alternations  |                      |   |
| <b>03 FLATTER</b>  | <b>Range: E3–F6</b>  |    |
| Flutter tonguing, normal and crescendo   |                      |   |
| <b>01 TrBb_flutter</b>   | <b>Samples: 42</b>   | <b>RAM: 2 MB</b>  |
| Flutter tonguing, sustained  |                      |   |
| <b>02 TrBb_flutter_cre</b>   | <b>Samples: 21</b>   | <b>RAM: 1 MB</b>  |
| Flutter tonguing, crescendo<br>1 velocity layer  |                      |   |
| <b>10 PERF INTERVAL</b>  | <b>Range: E3–D#6</b> |  |
| Legato with and without vibrato<br>Portamento tight and loose  |                      |   |
| <b>01 TrBb_perf-legato_Vib</b>   | <b>Samples: 967</b>  | <b>RAM: 60 MB</b>   |
| Legato, with vibrato<br>Monophonic<br>2 velocity layers: 0–88 p; 89–127 f<br>Release samples<br>AB switch: release normal/falls    |                      |   |
| <b>02 TrBb_perf-legato_noVib</b>   | <b>Samples: 967</b>  | <b>RAM: 60 MB</b>   |
| Legato, without vibrato<br>Monophonic<br>2 velocity layers: 0–88 p; 89–127 f<br>Release samples<br>AB switch: release normal/falls |                      |   |

**03 TrBb\_perf-portamento\_tight****Samples: 967****RAM: 60 MB**

Portamento, tight  
 Monophonic  
 2 velocity layers: 0–88 p; 89–127 f  
 Release samples  
 AB switch: release normal/falls

**04 TrBb\_perf-portamento\_loose****Samples: 967****RAM: 60 MB**

Portamento, loose  
 Monophonic  
 2 velocity layers: 0–88 p; 89–127 f  
 Release samples  
 AB switch: release normal/falls

**11 PERF INTERVAL FAST****Range: E3–D#6**

Legato, fast

**01 TrBb\_perf-legato\_fa****Samples: 967****RAM: 60 MB**

Legato, fast  
 Monophonic  
 2 velocity layers: 0–88 p; 89–127 f  
 Release samples  
 AB switch: release normal/falls

**12 PERF TRILL****Range: E3–D#6**

Trills, minor and major 2nd; all other intervals legato

**01 TrBb\_perf-trill****Samples: 1647****RAM: 102 MB**

Trills, minor and major 2nd; all other intervals legato  
 Monophonic  
 2 velocity layers: 0–88 p; 89–127 f  
 Release samples  
 AB switch: release normal/falls

**13 PERF REPETITION****Range: E3–F6**

Legato, portato, staccato  
 Portato and staccato crescendo, 9 repetitions

**01 TrBb\_perf-rep\_leg****Samples: 315****RAM: 19 MB**

Legato repetitions  
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

**02 TrBb\_perf-rep\_por****Samples: 567****RAM: 35 MB**

Portato repetitions  
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

**03 TrBb\_perf-rep\_sta****Samples: 567****RAM: 35 MB**

Staccato repetitions

3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

**11 TrBb\_perf-rep\_cre9\_por****Samples: 189****RAM: 11 MB**

Portato crescendo, 9 repetitions

**12 TrBb\_perf-rep\_cre9\_sta****Samples: 189****RAM: 11 MB**

Staccato crescendo, 9 repetitions

**15 FAST REPETITION****Range: E3–E6**

Staccato, 16 repetitions

16ths at 140 to 190, and 210 BPM

**01 TrBb\_fast-rep\_140 (150/160/170/180/190/210)****Samples: 126****RAM: 7 MB**

Staccato, 16 repetitions

16ths at 140 to 190, and 210 BPM

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

Release samples

**98 RESOURCES****01 Perf Rep dyn****Range: E3–F6**

Extracted dynamics repetitions, portato and staccato

**01 TrBb\_rep\_cre9\_por-1 (2/3/4/5/6/7/8/9)****Samples: 21****RAM: 1 MB**

Extracted repetitions: Portato, crescendo, 1st to 9th repetition

**02 TrBb\_rep\_cre9\_sta-1 (2/3/4/5/6/7/8/9)****Samples: 21****RAM: 1 MB**

Extracted repetitions: Staccato, crescendo, 1st to 9th repetition

**99 RELEASE**

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.



# Matrices

## Matrix - A Standard-Advanced

### 01 TrBb Articulation Combi

Samples: 2215 RAM: 138 MB

Staccato, portato short and medium  
Sustained with normal, without, and with progressive vibrato  
Fortepiano, sforzato, sforzatissimo  
Flutter tonguing normal and crescendo

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 3 zones

|    | C1             | C#1               | D1            | D#1               |
|----|----------------|-------------------|---------------|-------------------|
| V1 | staccato       | sus vibrato       | fortepiano    | flutter normal    |
| V2 | portato short  | sus no vibrato    | sforzato      | flutter crescendo |
| V3 | portato medium | sus prog. vibrato | sforzatissimo | flutter crescendo |

### 02 TrBb Perf-Legato Speed

Samples: 1925 RAM: 120 MB

Legato with and without vibrato, tight portamento  
Fast legato

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 3 zones

|    | slow              | fast        |
|----|-------------------|-------------|
| V1 | legato vibrato    | legato fast |
| V2 | legato no vibrato | %           |
| V3 | portamento tight  | %           |

### 03 TrBb Perf-Trill Speed

Samples: 2605 RAM: 162 MB

Legato with and without vibrato, tight portamento  
Trills  
Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 3 zones

|    | slow              | fast   |
|----|-------------------|--------|
| V1 | legato vibrato    | trills |
| V2 | legato no vibrato | %      |
| V3 | portamento tight  | %      |

### 04 TrBb Short+Long notes

Samples: 1109 RAM: 69 MB

Staccato, portato short and medium  
Sustained without, with normal and progressive vibrato, and marcato  
Slides, sustained with and without vibrato  
Falls

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 3 zones

|    | C1             | C#1                 | D1                | D#1   |
|----|----------------|---------------------|-------------------|-------|
| V1 | staccato       | sus vibrato         | sus no vibrato    | falls |
| V2 | portato short  | sus marcato vibrato | sus prog. vibrato | falls |
| V3 | portato medium | sus slide vibrato   | sus slide no vib. | falls |

**05 TrBb Dynamics****Samples: 1029 RAM: 64 MB**

Dynamics

Medium and strong crescendo and diminuendo, 1.5, 2, 3, and 4 sec.

Crescendo-diminuendo, 2, 3, 4, and 6 sec.

Fortepiano, sforzato, sforzatissimo

AB switch: crescendo/diminuendo

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 5 zones

|             | C1       | C#1    | D1     | D#1    |
|-------------|----------|--------|--------|--------|
| dyn.medium  | 1.5 sec. | 2 sec. | 3 sec. | 4 sec. |
| dyn.strong  | 1.5 sec. | 2 sec. | 3 sec. | 4 sec. |
| pfp vib.    | 2 sec.   | 3 sec. | 4 sec. | 6 sec. |
| pfp no vib. | 2 sec.   | 3 sec. | 4 sec. | 6 sec. |
| sfz         | fp       | sfz    | sffz   | sffz   |

**Matrix - B Repetitions****11 TrBb Perf-Repetitions - Combi****Samples: 1449 RAM: 90 MB**

Repetition performances: Legato, portato, staccato

**Matrix switches:** Horizontal: Keyswitches, C1–D1

|             | C1     | C#1     | D1       |
|-------------|--------|---------|----------|
| repetitions | legato | portato | staccato |

**12 TrBb Perf-Repetitions - Speed****Samples: 1449 RAM: 90 MB**

Repetition performances: Legato, portato, staccato

Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

|             | H1     | H2      | H3       |
|-------------|--------|---------|----------|
| repetitions | legato | portato | staccato |

**13 TrBb Fast-Repetitions****Samples: 504 RAM: 31 MB**

Fast repetitions, 140 to 190, and 210 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–F#1

|           | C1  | C#1 | D1  | D#1 | E1  | F1  | F#1 |
|-----------|-----|-----|-----|-----|-----|-----|-----|
| speed/BPM | 140 | 150 | 160 | 170 | 180 | 190 | 210 |

## Matrix - C Keyswitch Vel

### 21 TrBb Portato - cre9

Samples: 189    RAM: 11 MB

Portato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

|         | C1  | C#1 | D1  | D#1 | E1  | F1  | F#1 | G1  | G#1 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| portato | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th |

### 22 TrBb Staccato - cre9

Samples: 189    RAM: 11 MB

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

|          | C1  | C#1 | D1  | D#1 | E1  | F1  | F#1 | G1  | G#1 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| staccato | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th |

### 23 TrBb Combi - cre9

Samples: 378    RAM: 23 MB

Portato, staccato: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1    Vertical: Modwheel, 2 zones

|          | C1  | C#1 | D1  | D#1 | E1  | F1  | F#1 | G1  | G#1 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| portato  | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th |
| staccato | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th |

## Presets

### TrBb VSL Preset

Samples: 6754    RAM: 422 MB

Matrices:

02 TrBb Perf-Legato Speed

03 TrBb Perf-Trill Speed

01 TrBb Articulation Combi

11 TrBb Perf-Repetitions - Combi

23 TrBb Combi - cre9

13 TrBb Fast-Repetitions

Matrix keyswitches: C2–F2